ff OIPE

RAW SEQUENCE LISTING

112

DATE: 06/19/2001

PATENT APPLICATION: US/09/870,113

TIME: 12:07:21

Input Set : A:\SEQLIST MSC 31.txt

Output Set: N:\CRF3\06192001\1870113.raw

ENTERED

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4 <110> APPLICANT: Turner, C. Alexander Jr.
              Hilbun, Erin
              Potter, David
      8 <120> TITLE OF INVENTION: Novel Human Mitochondrial Proteins and Polynucleotides
Encoding the
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C--> 13 <141> CURRENT FILING DATE: 2001-05-30
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     31 cagagtetae ageetgaeee agetgeeege tategeaatg tgttggagge eetetggagg
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                                                                               540
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    39 ccaageteec aegteetete tggagettge geaggagetg tagetgeege agecacaace
                                                                               840
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    41 attacaggac atatcacagg catggctagt gccttcagga cggtatatca agtaggtggg
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	68 69	Arg	Pro 130	Met	Arg	Gly	Leu	Asn 135	Val	Thr	Ala	Thr		Ala	Gly	Pro	Ala	
		***		T	m	D1			_		_	_	140	_	1	_	_	
		145	Ala	Leu	TYL	Pne	150	cys	Tyr	Glu	Lys	ьеи 155	ràs	ьуs	Thr	Leu	Ser 160	
	72	Asp	Val	Ile	His	Pro	Glv	Glv	Asn	Ser	His	Ile	Ala	Asn	Glv	Ala	Ala	
	73					165					170					175		
	74 75	GLY	Cys	Vаl	Ala 180	Thr	Leu	Leu	His	Asp	Ala	Ala	Met	Asn		Ala	Glu	
		17- 1	17- 1	+			37-4	01 .	37.1	185	_	~	_	_	190	_	7	
	76 77	vaı	val	Lys 195	GIn	Arg	Met	GIn	Met 200	Tyr	Asn	Ser	Pro	Tyr 205	His	Arg	Val	
	78	Thr	Asp	Cys	Val	Arg	Ala	Val	Trp	Gln	Asn	Glu	Gly	Ala	Gly	Ala	Phe	
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	90	Ile	Thr	Gly	Met	Ala	Ser	Ala	Phe	Arg	Thr	Val	Tvr	Gln	Val	Glv	Glv	
		305		•			310			5		315	-1-			1	320	
	92	Val	Thr	Ala	Tvr	Phe	Ara	Glv	Va1	Gln	Ala		Val	Tle	Tvr	Gln		
	93				-	325	,	1			330	5			-1-	335		
		Pro	Ser	Thr	Αla		Ala	Trp	Ser	Val		Glu	Phe	Dhe	T.vs			
	95				340				001	345	- 1 -	Olu	1110	1110	350	- 1 -	Leu	
		Tle	Thr	Lvs		Gln	Glu	Glu	Trn	Arg	λla	Clv	Tvc		330			
	97	110		355	1119	OIII	OLU	Giu	360	лгу	AIG	СТУ	цуз					
		<210	\		NO:	3			500									
					'H: 5												-	
					DNA	-												
					IISM:			nior										
					ENCE:		10 30	ibrei	15									
							.~~ +		. ~ ~ ~ ~	-++								C 0
	106	000	yayı		ayyy	9099 4+44	yy L	.yclg	1+~~	yr yt	.yycç	19999	ggc	:cggc	gyc	ayyy	cccggg	60
	- 0 0 1 N 7	099	ayee	aca	yyya	gucg	ige g	racat	cyyo	ic gg	iy cgg	je ugo	ago	9999	ter	gggc	cggggg	120
	- U / 1 N P	900	yycy maet	909	9990	yycc act -	99 9	1900t	.ycaç	, y CC	.0000	y cac	: yac	aaya	LCC	yyac	tccggc	180
•	- 00	ceg	yacı	.acy	ayyo	gulg	ice g	jyctg	yayc	c ac	Lyto	acca	cgc	acat	.ygt	yyca	ıggcgcc	240

RAW SEQUENCE LISTING DATE: 06/19/2001 PATENT APPLICATION: US/09/870,113 TIME: 12:07:21

Input Set : A:\SEQLIST MSC 31.txt

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	l attataagaa cggagggcct atggaggccc atgagg					420								
	geagggeetg cecaegeeet ttattttgee tgetae					480								
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123			T T	15	m									
	Ala Gly Pro Gly Arg Ser Pro Gly Glu Ser	Ala	Leu Leu		Trp									
125	— ·	- 01	G1 G1	30	7.1.									
127	5 Leu Gln Arg Gly Val Gly Arg Gly Ala Gly 7	GIA	45	Ala Gly	Ala									
		Con		1 an II	C1									
129	B Cys Arg Pro Pro Val Arg Gln Asp Pro Asp B 50 50	ser	60 PTO	ASP TYP	Glu									
) Ala Leu Pro Ala Gly Ala Thr Val Thr Thr	. uic		Ala Clu	7.1 n									
	65 70	75	Met vai	Ala Giy	80									
	? Val Ala Gly Ile Leu Glu His Cys Val Met		Pro Ile	Acn Cyc										
133		- + <u>y</u> -	110 110	95	Vai									
	Lys Thr Arg Met Gln Ser Leu Gln Pro Asp	Pro	Ala Ala		Ara									
135		, 110	mia ma	110	111.9									
	S Asn Val Leu Glu Ala Leu Trp Arg Ile Ile	. Ara	Thr Glu		Trp									
137			125	1	F									
138	B Arg Pro Met Arg Gly Leu Asn Val Thr Ala	Thr		Glv Pro	Ala									
139			140	2										
140	His Ala Leu Tyr Phe Ala Cys Tyr Glu Lys	Leu	Lys Lys	Thr Leu	Ser									
	145 150	155			160									
142	R Asp Val Ile His Pro Gly Gly Asn Ser His	Ile	Ala Asn	Gly Ala	Ala									
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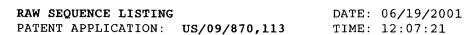
RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/870,113

DATE: 06/19/2001 TIME: 12:07:21

Input Set : A:\SEQLIST MSC 31.txt

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178 Leu Gln Arg Gly Val Gly Arg Gly Ala Gly Gly Glu Ala Gly Ala												
179 35 40 45												
180 Cys Arg Pro Pro Val Arg Gln Asp Pro Asp Ser Gly Pro Asp Tyr Glu												
181 50 55 60												
182 Ala Leu Pro Ala Gly Ala Thr Val Thr His Met Val Ala Gly Ala												
183 65 70 75 80												
184 Val Ala Gly Ile Leu Glu His Cys Val Met Tyr Pro Ile Asp Cys Val												
185 90 95												
186 Lys Thr Arg Met Gln Ser Leu Gln Pro Asp Pro Ala Ala Arg Tyr Arg												
187 100 105 110												
188 Asn Val Leu Glu Ala Leu Trp Arg Ile Ile Arg Thr Glu Gly Leu Trp												
189 115 120 125												
190 Arg Pro Met Arg Gly Leu Asn Val Thr Ala Thr Gly Ala Gly Pro Ala												
191 130 135 140												
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193 145 150 155 160												
194 Asp Val Ile His Pro Gly Gly Asn Ser His Ile Ala Asn Gly Ala Ala												
195 165 170 175												
196 Gly Cys Val Ala Thr Leu Leu His Asp Ala Ala Met Asn Pro Ala Glu												
197 180 185 190												
198 Gly Asn Asp Ser Ser Thr Tyr His Ser Val Gly Ser Cys Thr Cys Ile												
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214 agtgatgtaa tocaccotgg gggcaatagc catattgcca atggtgcggc cgggtgtgtg	240											
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Input Set : A:\SEQLIST MSC 31.txt

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233					5					10	*** 9	-1-	**** 9		15	<u> L</u> Cu	
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235				20				9	25		011			30			
	Arq	Gly	Leu		Val	Thr	Ala	Thr	-	Ala	Glv	Pro	Ala		Ala	Leu	
237	,		35					40	1		1		45				
23.8	Tyr	Phe	Ala	Cys	Tyr	Glu	Lys	Leu	Lys	Lys	Thr	Leu	Ser	Asp	Val	Ile	
239		50			_		55		_	_		60		-			
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241	65					. 70					75					80	
	Ala	Thr	Leu	Leu	His	Asp	Ala	Ala	Met	Asn	Pro	Ala	Glu	Val	Val	Lys	
243					85					90					95		
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245				100					105					110			
	Val	Arg		Val	\mathtt{Trp}	Gln.	Asn		Gly	Ala	Gly	Ala		Tyr	Arg	Ser	
247	_		115					120	_		_	_	125	_		_	
	Tyr		Thr	GIn	Leu	Thr		Asn	Val	Pro	Phe		Ala	Ile	His	Phe	
249	14 ± ±	130		a 1.	n1	-	135	~ 1	'	-1	_	140	~ 3	_	_	_	
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	145	Dwo	C	C	77.2	150	T	0	a 1	71-	155		a 1	.	**- 7	160	
253	ASII	PIO	ser	ser		val	ren	ser	GTA		Cys	Ата	GIĀ	Ата	Val	Ala	
	λls	λΊα	ת [ת	mh r	165	Dro	T 011	7.00	17-1	170	T	mh m	T 0	т о	175	mb	
255	ніа	нта	ніа	180	1111	PIO	ьeu	ASP		Cys	гàг	THE	ьeu		Asn	Thr	
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					Dho	Δra			Пиг	Cln.	Val	C1v		1/2 1	Thr	λla	
259	1100	210	DCI	niu	rne	Arg	215	val	TAT	GIII	Val	220	СТУ	vai	1111	Ald	
	Tvr		Arα	Glv	Val	Gln		Δra	Va 1	Tle	Tur		Tla	Pro	Ser	Thr	
	225	- 110	9		,	230	u	111 9	· u.i	110	235	OIII	110	110	DCI	240	
		Ile	Ala	Trp	Ser		Tvr	Glu	Phe	Phe		Tvr	Len	Tle	Thr		
263				F	245		-1-			250	-10	-1-			255	-15	
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/870,113

DATE: 06/19/2001

TIME: 12:07:22

Input Set : A:\SEQLIST MSC 31.txt

Output Set: N:\CRF3\06192001\1870113.raw

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